

IN THE CLAIMS

Kindly cancel claims 1-5 and add new claims 6-14.

1-5 (canceled)

6. (new) A method of controlling a tuneable laser having different laser sections, the laser having been characterized with respect to one or more laser operation points, each of the laser operation points corresponding to a set of different control conditions for the different laser sections, the method comprising:

determining respective voltages across the different laser sections when operating the tuneable laser; and

holding the determined respective voltages across the different laser sections at constant levels when operating the tuneable laser so as to maintain a desired laser operation point.

7. (new) A method according to Claim 6, wherein holding the determined respective voltages comprises applying a set of predetermined constant voltages across respective laser sections of the tuneable laser from a voltage source.

8. (new) A method according to Claim 7, further comprising measuring the voltages across the respective laser sections, and adjusting the voltage source to maintain the predetermined voltages across each respective laser section.

9. (new) A method according to Claim 8, wherein adjusting the voltage source comprises changing electrical currents applied to each laser section so as to maintain the predetermined voltages constant.

10. (new) An arrangement for controlling a tuneable laser having different laser sections, the tuneable laser having been characterized with respect to at least one suitable laser operation point, the at least one laser operation point corresponding to a

respective set of predetermined voltages applied respectively to the different laser sections, the controlling arrangement comprising:

the tuneable laser having different laser sections; and

a voltage unit coupled to the tuneable laser to apply different voltages to the different laser sections respectively, the voltage unit being adapted to hold the applied voltages at constant levels corresponding to the set of predetermined voltages associated with a desired laser operation point, so as to maintain operation of the tuneable laser at the desired laser operation point.

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11. (New) An arrangement according to Claim 10, further comprising a circuit to measure voltages across the different laser sections, the circuit being adapted to adjust the voltage source to maintain the predetermined voltages across each laser section.

12. (new) An arrangement according to Claim 10, wherein the tuneable laser includes a Bragg reflector.

13. (new) An arrangement according to Claim 12, wherein the tuneable laser is a distributed Bragg reflector (DBR) laser.

14. (new) An arrangement according to Claim 12, wherein the tuneable laser is a grating coupled sampling reflector (GCSR) laser.
